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Technical Data Sheet

Anti-Mouse CD309 (FLK1) PE

Catalogue Number : 41112-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: Avas12a1
Format/Conjugate: PE
Concentration: 0.2 mg/mL
Reactivity: Mouse
Laser: Blue (488nm), Yellow/Green (532-561nm)
Peak Emission: 578nm
Peak Excitation: 496nm
Filter: 585/40
Brightness (1=dim,5=brightest): 5
Isotype: Rat IgG2a, kappa
Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.
Applications: FC

Description

The Avas12a1 monoclonal antibody specifically reacts with mouse CD309, also known as fetal liver kinase-1 (Flk-1) or the vascular endothelial growth factor receptor 2 (VEGFR2). CD309 is a receptor for VEGF and VEGFC and is expressed in endothelial cells in embryonic and adult tissue and a requirement for the development of vascular endothelial and hematopoietic cells.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.5 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

and Flk1 genes clustering in mouse chromosome 5 define distinct subsets of nascent mesodermal cells.;Development, growth ; differentiation,39(6), 729-740.

2. Ishitobi, H., Matsumoto, K., Azami, T., Itoh, F., Itoh, S., Takahashi, S., ; Ema, M. (2010). Flk1-GFP BAC Tg mice: an animal model for the study of blood vessel development.;Experimental animals,;59(5), 615-622.

3. Yamashita, J., Itoh, H., Hirashima, M., Ogawa, M., Nishikawa, S., Yurugi, T., ... ; Nishikawa, S. I. (2000). Flk1-positive cells derived from embryonic stem cells serve as vascular progenitors.;Nature,;408(6808), 92-96.

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